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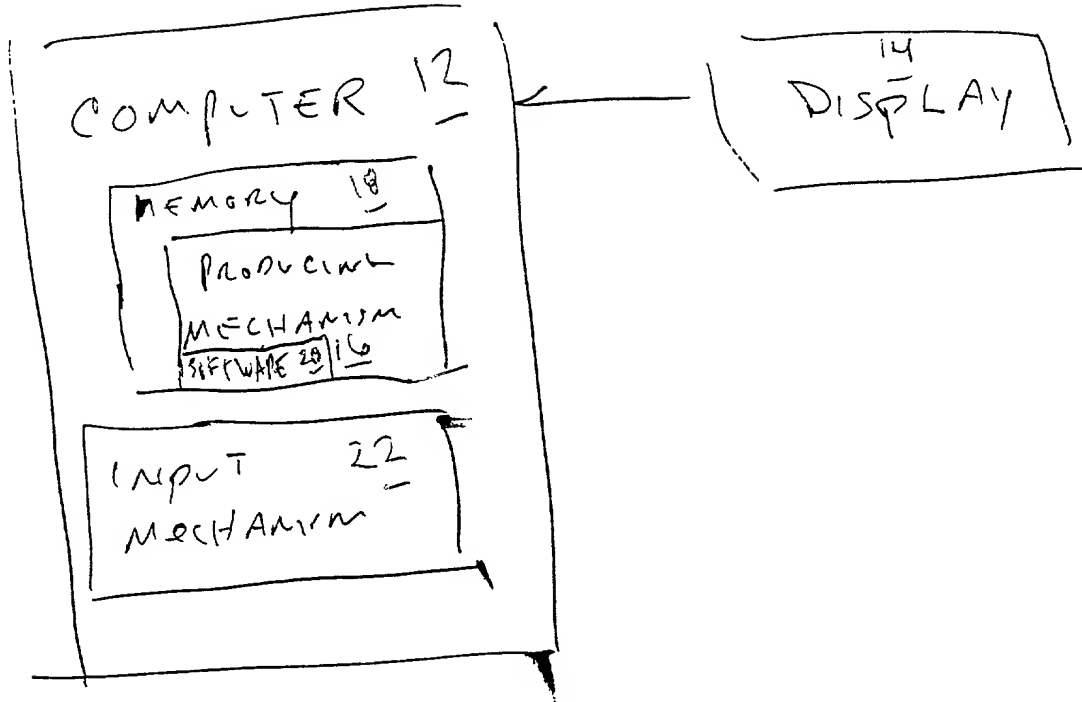


Fig 1

old df/dx at z=0.0	new df/dx at z=0.0	old df/dy at z=0.0	new df/dx at z=0.0
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[illegible]

old df/dy at $z=0.0$	new df/dx at $z=0.0$
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new df/dx at $z=0.0$

old df/dx at $z=0.5$	new df/dx at $z=0.5$	old df/dy at $z=0.5$	new df/dx at $z=0.5$
old df/dz at $z=0.0$	new df/dz at $z=0.0$	old $f(xyz)$ at $z=0.0$	new $f(xyz)$ at $z=0.0$
old df/dz at $z=0.5$	new df/dz at $z=0.5$	old $f(xyz)$ at $z=0.5$	new $f(xyz)$ at $z=0.5$

new df/dx at $z=0.5$	old df/dy at $z=0.5$	new df/dx at $z=0.5$
new df/dz at $z=0.0$	old $f(xyz)$ at $z=0.0$	new $f(xyz)$ at $z=0.0$
new df/dz at $z=0.5$	old $f(xyz)$ at $z=0.5$	new $f(xyz)$ at $z=0.5$

old df/dy at $z=0.5$	new df/dx at $z=0.5$
old $f(xyz)$ at $z=0.0$	new $f(xyz)$ at $z=0.0$
old $f(xyz)$ at $z=0.5$	new $f(xyz)$ at $z=0.5$

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new df/dx at z=0.5
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The figure displays a 2x4 grid of plots showing the evolution of a function $f(xyz)$ and its derivative df/dz over time. The top row shows results at $z=0.0$, and the bottom row shows results at $z=0.5$. Each plot compares 'old' and 'new' values of the function and its derivative.

Top Row ($z=0.0$):

- Plot 1 (left):** df/dz at $z=0.0$. The y-axis ranges from -0.0001 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 2:** df/dz at $z=0.0$. The y-axis ranges from -0.0001 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 3:** $f(xyz)$ at $z=0.0$. The y-axis ranges from 0.0000 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 4 (right):** $f(xyz)$ at $z=0.0$. The y-axis ranges from 0.0000 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.

Bottom Row ($z=0.5$):

- Plot 1 (left):** df/dz at $z=0.5$. The y-axis ranges from -0.0001 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 2:** df/dz at $z=0.5$. The y-axis ranges from -0.0001 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 3:** $f(xyz)$ at $z=0.5$. The y-axis ranges from 0.0000 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.
- Plot 4 (right):** $f(xyz)$ at $z=0.5$. The y-axis ranges from 0.0000 to 0.0001. The plot shows a sharp peak at $t=0$ and then decays to zero.

The figure displays a 2x3 grid of plots showing the evolution of a function $f(x,y,z)$ and its derivative df/dz over time steps 0 to 10. The top row shows results at $z=0.0$, and the bottom row shows results at $z=0.5$. Each plot compares 'old' and 'new' values of the function and derivative.

Top Row ($z=0.0$):

- Left Plot:** df/dz vs. time. The y-axis ranges from -1.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.
- Middle Plot:** $f(x,y,z)$ vs. time. The y-axis ranges from 0.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.
- Right Plot:** $f(x,y,z)$ vs. time. The y-axis ranges from 0.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.

Bottom Row ($z=0.5$):

- Left Plot:** df/dz vs. time. The y-axis ranges from -1.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.
- Middle Plot:** $f(x,y,z)$ vs. time. The y-axis ranges from 0.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.
- Right Plot:** $f(x,y,z)$ vs. time. The y-axis ranges from 0.0 to 1.0. The plot shows a sharp peak at time 0, followed by a rapid decay. The 'new' value (red line) is significantly higher than the 'old' value (blue line) at time 0.

old $f(xyz)$ at $z=0.0$ new $f(xyz)$ at $z=0.0$

old $f(xyz)$ at $z=0.5$ new $f(xyz)$ at $z=0.5$

new $f(xyz)$ at $z=0.0$

<code>old df/dz at z=0.5</code>	<code>new df/dz at z=0.5</code>	<code>old f(xyz) at z=0.5</code>	<code>new f(xyz) at z=0.5</code>
-0.6875	-0.9375	0.1875	0.0625

new df/dz at z=0.5	old f(xyz) at z=0.5	new f(xyz) at z=0.5
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old $f(xyz)$ at $z=0.5$ new $f(xyz)$ at $z=0.5$

new $f(xyz)$ at $z=0.5$

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